A N I M A L W A S T E A N A L Y S I S R E P O R T

Agricultural Service Laboratory
Clemson University

LAB No. 60924

BRITT, R O
PO BOX 1240
WAVERLY VA 23890

ACCOUNT 0000000
DATE 06/25/2014
ROBRITT@MURPHYBROWNLLC.COM
PREPAID

SAMPLE NO. 6P MANURE: SWINE STORAGE: LAGOON

----------RESULTS REPORTED ON AN AS-SAMPLED BASIS----------

			lbs/1000gal
Ammonium Nitrogen	0.065	%	5.42
Organic Nitrogen	0.015	%	1.25
TOTAL KJELDAHL NITROGEN	0.080	%	6.68
INCORPORATED AVAILABLE NITROGEN ESTIMATE			5.09
SURFACE AVAILABLE NITROGEN ESTIMATE			3.46
Phosphorus as P2O5	0.0131	%	1.09
Potassium as K2O	0.1524	%	12.72
Calcium	0.0100	%	0.83
Magnesium	0.0039	%	0.33
Sulfur	0.0033	%	0.28
Zinc	2.31	ppm	0.02
Copper	0.46	ppm	0.00
Manganese	0.48	ppm	0.00
Sodium	355.99	ppm	2.97
Moisture	99.49	%	

VA DCR N
3.34 lbs/kgal

INCORPORATED PLANT AVAILABLE NITROGEN ESTIMATE - 80% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be incorporated into the soil within hours of application. Assumes some loss of ammonium-N during application and prior to incorporation.

SURFACE PLANT AVAILABLE NITROGEN ESTIMATE - 50% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be left on the surface of the soil with no incorporation by plowing or irrigation.

Available nitrogen calculations are estimates and if nitrate-N was not requested the amount of available nitrogen may be slightly more than reported. Also, the actual amount may be more or less than the estimate depending on the composition of the manure, soil type, and environmental conditions.

All of the potash in the animal waste should be plant available in the first year of application. Although not all of the phosphorous is available in the first year, its availability should be comparable to that in commercial fertilizers.

The rate of animal waste to apply for crop production is dependent on the nutrient content of the waste, method of application and incorporation, soil

A N I M A L W A S T E A N A L Y S I S R E P O R T

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LAB No. 60925 Clemson University

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ACCOUNT 0000000
DATE 06/25/2014
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SAMPLE NO. 7P MANURE: SWINE STORAGE: LAGOON

RESULTS REPORTED ON AN AS-SAMPLED BASIS

			lbs/1000gal
Ammonium Nitrogen	0.057	%	4.76
Organic Nitrogen	0.011	%	0.92
TOTAL KJELDAHL NITROGEN	0.068	%	5.67
INCORPORATED AVAILABLE NITROGEN ESTIMATE			4.36
SURFACE AVAILABLE NITROGEN ESTIMATE			2.93
Phosphorus as P2O5	0.0128	%	1.07
Potassium as K2O	0.1236	%	10.32
Calcium	0.0098	%	0.82
Magnesium	0.0039	%	0.33
Sulfur	0.0020	%	0.17
Zinc	1.56	ppm	0.01
Copper	0.32	ppm	0.00
Manganese	0.41	ppm	0.00
Sodium	280.62	ppm	2.34
Moisture	99.66	%	

VA DCR N
2.835
lbs/kgal

INCORPORATED PLANT AVAILABLE NITROGEN ESTIMATE - 80% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be incorporated into the soil within hours of application. Assumes some loss of ammonium-N during application and prior to incorporation.

SURFACE PLANT AVAILABLE NITROGEN ESTIMATE - 50% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be left on the surface of the soil with no incorporation by plowing or irrigation.

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A N I M A L W A S T E A N A L Y S I S R E P O R T

Agricultural Service Laboratory

LAB No. 60926 Clemson University

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ACCOUNT 0000000
DATE 06/25/2014
ROBRITT@MURPHYBROWNLLC.COM
PREPAID

SAMPLE NO. 7S MANURE: SWINE STORAGE: LAGOON

RESULTS REPORTED ON AN AS-SAMPLED BASIS

			lbs/1000gal
Ammonium Nitrogen	0.019	%	1.59
Organic Nitrogen	0.009	%	0.75
TOTAL KJELDAHL NITROGEN	0.028	%	2.34
INCORPORATED AVAILABLE NITROGEN ESTIMATE			1.72
SURFACE AVAILABLE NITROGEN ESTIMATE			1.24
Phosphorus as P2O5	0.0071	%	0.59
Potassium as K2O	0.0959	%	8.00
Calcium	0.0061	%	0.51
Magnesium	0.0019	%	0.16
Sulfur	0.0012	%	0.10
Zinc	0.84	ppm	0.01
Copper	0.17	ppm	0.00
Manganese	0.19	ppm	0.00
Sodium	221.47	ppm	1.85
Moisture	99.66	%	

VA DCR N
1.17
lbs/kgal

INCORPORATED PLANT AVAILABLE NITROGEN ESTIMATE - 80% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be incorporated into the soil within hours of application. Assumes some loss of ammonium-N during application and prior to incorporation.

SURFACE PLANT AVAILABLE NITROGEN ESTIMATE - 50% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be left on the surface of the soil with no incorporation by plowing or irrigation.

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SAMPLE NO. 8P MANURE: SWINE STORAGE: LAGOON

RESULTS REPORTED ON AN AS-SAMPLED BASIS

			lbs/1000gal
Ammonium Nitrogen	0.089	%	7.43
Organic Nitrogen	0.015	%	1.25
TOTAL KJELDAHL NITROGEN	0.104	%	8.68
INCORPORATED AVAILABLE NITROGEN ESTIMATE			6.69
SURFACE AVAILABLE NITROGEN ESTIMATE			4.46
Phosphorus as P2O5	0.0128	%	1.07
Potassium as K2O	0.1640	%	13.69
Calcium	0.0101	%	0.84
Magnesium	0.0038	%	0.32
Sulfur	0.0032	%	0.27
Zinc	2.11	ppm	0.02
Copper	0.49	ppm	0.00
Manganese	0.48	ppm	0.00
Sodium	424.77	ppm	3.54
Moisture	99.50	%	

VA DCR N
4.34
lbs/kgal

INCORPORATED PLANT AVAILABLE NITROGEN ESTIMATE - 80% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be incorporated into the soil within hours of application. Assumes some loss of ammonium-N during application and prior to incorporation.

SURFACE PLANT AVAILABLE NITROGEN ESTIMATE - 50% of ammonium-N, 60% of organic-N, and 100% of nitrate-N (if determined). Assumes the manure will be left on the surface of the soil with no incorporation by plowing or irrigation.

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The rate of animal waste to apply for crop production is dependent on the nutrient content of the waste, method of application and incorporation, soil